

Figure 1

SEQ ID NO: 12

GTCATGAAAT TGGAAATCTGA CAAGACGTTT CCAATCATGT TGGAAGGGAA
GATAAACGGC TACGCTTGTG TGGTCGGAGG GAAGTTATTC AGGCCGATGC
ATGTGGAAGG CAAGATCGAC AACGACGTTT TGGCCGCGCT TAAGACGAAG
AAAGCATCCA AATACGATCT TGAGTATGCA GATGTGCCAC AGAACATGCG
GGCCGATACA TTCAAATACA CCCATGAGAA ACCCCAAGGC TATTACAGCT
GGCATCATGG AGCAGTCCAA TATGAAAATG GGCCTTTCAC GGTGCCGAAA
GGAGTTGGGG CCAAGGGAGA CAGCGGACGA CCCATTCTGG ATAACCAGGG
ACGGGTGGTC GCTATTGTGC TGGGAGGTGT GAATGAAGGA TCTAGGACAG
CCCTTTGAGT CGTCATGTGG AACGAGAAGG GAGTTACCGT GAAGTATACT
CCGGAGAACT GCGAGCAATG GTAATGA

SEQ ID NO: 1

VMKLESDKTF PIMLEGKING YACVVGKKLF RPMHVEGKID NDVLAALKTK
KASKYDLEYA DVPQNMRA DT FKYTHEKPQG YYSWHHGA VQ YENGRETVPK
GVGAKGDSGR PILDNQGRVV AIVLGGVNEG SRTALSVVMW NEKGVTVKYT
PENCEQW

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VMKLESDKTF PIMLEGGKING YACVVGGKLF RPMHVEGKID NDVLAALKTK
KASKYDLEYA DVPQNMRA DT FKYTHEKPQG YYSWHHGAVQ YENGRFTVPK
GVGAKGDSGR PILDNQGRVV AIVLGGVNEG SRTALSVVMW NKLRSGTQWL
EGVTVKYTPE NCEOW

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Alignment of adaptein nucleotide sequences with CCD sequence:

A-1 GTCATGAAAT TGGAATCTGA CAAGACGTTT CCAATCATGT TGGAAGGGAA
A-2 GTCATGAAAT TGGAATCTGA CAAGACGTTT CCAATCATGT TGGAAGGGAA
CCD GTCATGAAAT TGGAATCTGA CAAGACGTTT CCAATCATGT TGGAAGGGAA

A-1 GATAAACGGC TACGCTTGTG TGGTCGGAGG GAAGTTATTC AGGCCGATGC
A-2 GATAAACGGC TACGCTTGTG TGGTCGGAGG GAAGTTATTC AGGCCGATGC
CCD GATAAACGGC TACGCTTGTG TGGTCGGAGG GAAGTTATTC AGGCCGATGC

A-1 ATGTGGAAGG CAAGATCGAC AACGACGTTT TGGCCGCGCT TAAGACGAAG
A-2 ATGTGGAAGG CAAGATCGAC AACGACGTTT TGGCCGCGCT TAAGACGAAG
CCD ATGTGGAAGG CAAGATCGAC AACGACGTTT TGGCCGCGCT TAAGACGAAG

A-1 AAAGCATCCA AATACGATCT TGAGTATGCA GATGTGCCAC AGAACATGCG
A-2 AAAGCATCCA AATACGATCT TGAGTATGCA GATGTGCCAC AGAACATGCG
CCD AAAGCATCCA AATACGATCT TGAGTATGCA GATGTGCCAC AGAACATGCG

A-1 GGCCGATACA TTCAAATACA CCCATGAGAA ACCCCAAGGC TATTACAGCT
A-2 GGCCGATACA TTCAAATACA CCCATGAGAA ACCCCAAGGC TATTACAGCT
CCD GGCCGATACA TTCAAATACA CCCATGAGAA ACCCCAAGGC TATTACAGCT

A-1 GGCATCATGG AGCAGTCCAA TATGAAAATG GGCCTTTTAC GGTGCCGAAA
A-2 GGCATCATGG AGCAGTCCAA TATGAAAATG GGCCTTTTAC GGTGCCGAAA
CCD GGCATCATGG AGCAGTCCAA TATGAAAATG GGCCTTTTAC GGTGCCGAAA

A-1 GGAGTTGGGG CCAAGGGAGA CAGCGGACGA CCCATTCTGG ATAACCAGGG
A-2 GGAGTTGGGG CCAAGGGAGA CAGCGGACGA CCCATTCTGG ATAACCAGGG
CCD GGAGTTGGGG CCAAGGGAGA CAGCGGACGA CCCATTCTGG ATAACCAGGG

A-1 ACGGGTGGTC GCTATTGTGC TGGGAGGTGT GAATGAAGGA TCTAGGACAG
A-2 ACGGGTGGTC GCTATTGTGC TGGGAGGTGT GAATGAAGGA TCTAGGACAG
CCD ACGGGTGGTC GCTATTGTGC TGGGAGGTGT GAATGAAGGA TCTAGGACAG

(HindIII) (XhoI)
A-1 CCTTTTCAGT CGTCATGTGG AAC---AAGCTT TCTCCACATTA TGCTCAA CTCGA
A-2 CCTTTTCAGT CGTCATGTGG AAC---AAGCTT AGAAGCGGTAC TCAATGG CTCGA
CCD CCTTTTCAGT CGTCATGTGG AACGAG-----

A-1 ---GGAGTTA CCGTGAAGTA TACTCCGGAG AACTGCGAGC AATGGTAATGAGC
A-2 ---GGAGTTA CCGTGAAGTA TACTCCGGAG AACTGCGAGC AATGGTAATGAGC
CCD AAGGGAGTTA CCGTGAAGTA TACTCCGGAG AACTGCGAGC AATGGTAATGAGC

Figure 2B

Figure 2C

A-1	VMKLESDKTF	PIMLEGKING	YACVVGGKLF	RPMHVEGKID	NDVLAALKTK
A-2	VMKLESDKTF	PIMLEGKING	YACVVGGKLF	RPMHVEGKID	NDVLAALKTK
CCD	VMKLESDKTF	PIMLEGKING	YACVVGGKLF	RPMHVEGKID	NDVLAALKTK

A-1	KASKYDLEYA	DVPQNMRA DT	FKYTHEKPQ G	YYSWHHGAV Q	YENGRFTVP K
A-2	KASKYDLEYA	DVPQNMRA DT	FKYTHEKPQ G	YYSWHHGAV Q	YENGRFTVP K
CCD	KASKYDLEYA	DVPQNMRA DT	FKYTHEKPQ G	YYSWHHGAV Q	YENGRFTVP K

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A-1  GVGAKGDSGR  PILDNQGRVV  AIVLGGVNEG  SRTALSVVMW  N-KLSPHYAQL
A-2  GVGAKGDSGR  PILDNQGRVV  AIVLGGVNEG  SRTALSVVMW  N-KLRSGTQWL
CCD  GVGAKGDSGR  PILDNQGRVV  AIVLGGVNEG  SRTALSVVMW  NE-----
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A-1	-G VTVKYTPE	NCEQW
A-2	-GVTVKYTPE	NCEQW
CCD	KGVTVKYTPE	NCEQW

THE FUTURE

Figure 3

SEQ ID NO: 6

5'ATGTACGGTCGTAAAAACGTCGTCAGCGTCGTCGTCATGAAATTGGAA
TCTGACAAGACGTTCCCAATCATGTTGGAAGGGAAGATAAACGGCTACGCTT
GTGTGGTCCGAGGGAAGTTATTCAGGCCGATGCATGTGGAAGGCAAGATCGA
CAACGACGTTCTGGCCGCGCTTAAGACGAAGAAAGCATCCAAATACGATCTT
GAGTATGCAGATGTGCCACAGAACATGCGGGCCGATACATTCAAATACACCC
ATGAGAAACCCCAAGGCTATTACAGCTGGCATCATGGAGCAGTCCAATATGA
AAATGGGCGTTTCACGGTGCCGAAAGGAGTTGGGGCCAAGGGAGACAGCGG
ACGACCCATTCTGGATAACCAGGGACGGGTGGTCGCTATTGTGCTGGGAGGT
GTGAATGAAGGATCTAGGACAGCCCTTTCAGTCGTCATGTGGAACAAGCTTG
GATCTTCTCTCGAGGGAGTTACCGTGAAGTATACTCCGGAGAACTGCGAGCA
ATGGTAA3'.

SEQ ID NO: 7

MYGRKKRRQRRRVMKLESDKTFPIMLEGKINGYACVVGGKLFRRPMHVEGKIDN
DVLAAALKTKKASKYDLEYADV PQNMRADTFKYTHEKPQGYYSWHHGAVQYE
NGRFTVPKGVGAKGDSGRPILDNQGRVVAIVLGGVNEGSRTALSVVMWNEKGV
TVKYTPENCEQW.